

## Repair Manual

Audi A1 2011 ➤,  
Audi A1 Sportback 2018 ➤,  
Audi A2 2001 ➤, Audi A3 1997 ➤,  
Audi A3 2004 ➤, Audi A3 2013 ➤,  
Audi A3 2021 ➤,  
Audi A3 Cabriolet 2008 ➤,  
Audi A4 1995 ➤, Audi A4 2001 ➤,  
Audi A4 2008 ➤, Audi A4 2015 ➤,  
Audi A4 Cabriolet 2003 ➤,  
Audi A5 2016 ➤,  
Audi A5 Cabriolet 2017 ➤,  
Audi A5 Coupé 2008 ➤,  
Audi A5 Sportback 2010 ➤,  
Audi A6 1998 ➤, Audi A6 2005 ➤,  
Audi A6 2011 ➤, Audi A6 2019 ➤,  
Audi A6 China 2012 ➤,  
Audi A7 Sportback 2011 ➤,  
Audi A7 Sportback 2018 ➤,  
Audi A8 1994 ➤, Audi A8 2003 ➤,  
Audi A8 2010 ➤, Audi A8 2018 ➤,  
Audi Q2 2016 ➤, Audi Q3 2012 ➤,  
Audi Q3 2019 ➤, Audi Q4 e-tron 2022 ➤,  
Audi Q5 2008 ➤, Audi Q5 2017 ➤,  
Audi Q7 2007 ➤, Audi Q7 2016 ➤,  
Audi Q8 2018 ➤, Audi R8 2007 ➤,  
Audi R8 2015 ➤, Audi TT 1999 ➤,  
Audi TT 2007 ➤, Audi TT 2015 ➤,  
Audi e-tron 2019 ➤,  
Audi e-tron GT 2022 ➤

Radio Installation Instructions
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Edition 08.2022

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## List of Workshop Manual Repair Groups

### Repair Group

91 - Radio, Telephone, Navigation

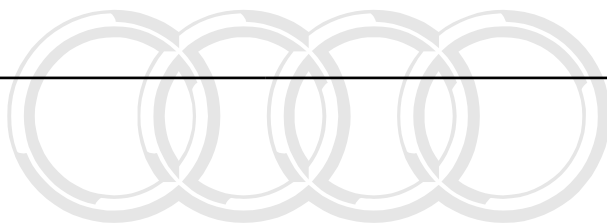


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Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.



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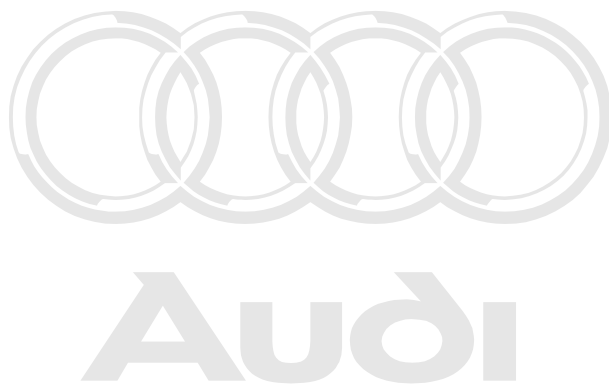
## Contents

<b>91 - Radio, Telephone, Navigation</b>	<b>1</b>
<b>1 Retrofitting Transmitter/Receiver Units</b>	<b>1</b>
1.1 General Information	4
1.2 Transmitting Power and Possible Component Locations	5
1.3 Power Supply	5
1.4 Antenna and Wiring	5
1.5 Other Auxiliary Installations	6
1.6 Battery A / Radio / Fuses / Wiring Harnesses Overview	6
1.7 Transmitter Power Output and Antenna Component Locations, A1 from MY 2011 through MY 2012 (Not for North America Market)	8
1.8 Transmitter Power Output and Antenna Component Locations, A1, from MY 2013 through MY 2018 (Not for North America Market)	8
1.9 Transmitter Power Output and Antenna Component Locations, A1 from MY 2019 (Not for North America Market)	8
1.10 Transmitter Power Output and Antenna Component Locations, A2 from MY 2001 (Not for North America Market)	9
1.11 Transmitter Power Output and Antenna Component Locations, A3, from MY 1997 through MY 2003	10
1.12 Transmitter Power Output and Antenna Component Locations, A3, from MY 2004 through MY 2012	11
1.13 Transmitter Power Output and Antenna Component Locations, A3, A3 Sportback from MY 2013 through 7/15/2013	11
1.14 Transmitter Power Output and Antenna Component Locations, A3, A3 Sportback, A3 Sedan from 7/22/2013	12
1.15 Transmitter Power Output and Antenna Component Locations, A3 from MY 2021	13
1.16 Transmitter Power Output and Antenna Component Locations, A3 Cabriolet, from MY 2008 through MY 2014	13
1.17 Transmitter Power Output and Antenna Component Locations, A3 Cabriolet from MY 2015	14
1.18 Transmitter Power Output and Antenna Component Locations, A4 from MY 1995 through MY 2000	15
1.19 Transmitter Power Output and Antenna Component Locations, A4 from MY 2001 through MY 2007	17
1.20 Transmitter Power Output and Antenna Component Locations, A4 from MY 2008 through 3/5/2012	18
1.21 Transmitter Power Output and Antenna Component Locations, A4 from 03/12/2012 through MY 2015	19
1.22 Transmitter Power Output and Antenna Component Locations, A4 from MY 2016	20
1.23 Transmitter Power Output and Antenna Component Locations, A4 Cabriolet from MY 2003	22
1.24 Transmitter Power Output and Antenna Component Locations, A5 Coupe from MY 2008 through 3/5/2012	22
1.25 Transmitter Power Output and Antenna Component Locations, A5 Coupe from 03/12/2012 through MY 2016	23
1.26 Transmitter Power Output and Antenna Component Locations, A5 Coupe from MY 2017	24
1.27 Transmitter Power Output and Antenna Component Locations, A5 Sportback from MY 2010 through 3/5/2012	24
1.28 Transmitter Power Output and Antenna Component Locations, A5 Sportback from 03/12/2012 through MY 2016	25
1.29 Transmitter Power Output and Antenna Component Locations, A5 Sportback from MY 2017	26
1.30 Transmitter Power Output and Antenna Component Locations, A5 Cabriolet from MY 2009 through 3/5/2012	26
1.31 Transmitter Power Output and Antenna Component Locations, A5 Cabriolet from 03/12/2012 through 10/31/2016	27
1.32 Transmitter Power Output and Antenna Component Locations, A5 Cabriolet from 11/7/2016	27



1.33	Transmitter Power Output and Antenna Component Locations, A6, from MY 1998 through MY 2004	28
1.34	Transmitter Power Output and Antenna Component Locations, A6, from MY 2005 through MY 2010	29
1.35	Transmitter Power Output and Antenna Component Locations, A6 from MY 2011 through MY 2012	30
1.36	Transmitter Power Output and Antenna Component Locations, A6 from MY 2013 through MY 2014	32
1.37	Transmitter Power Output and Antenna Component Locations, A6 from MY 2015 through MY 2018	33
1.38	Transmitter Power Output and Antenna Component Locations, A6 from MY 2019	35
1.39	Transmitter Power Output and Antenna Component Locations, A7 Sportback from MY 2011 through MY 2012	36
1.40	Transmitter Power Output and Antenna Component Locations, A7 Sportback from MY 2013 through MY 2014	37
1.41	Transmitter Power Output and Antenna Component Locations, A7 Sportback from MY 2015 through MY 2018	37
1.42	Transmitter Power Output and Antenna Component Locations, A7 from MY 2019	38
1.43	Transmitter Power Output and Antenna Component Locations, A8 from MY 1994 through MY 2002	39
1.44	Transmitter Power Output and Antenna Component Locations, A8, from MY 2003 through MY 2009	40
1.45	Transmitter Power Output and Antenna Component Locations, A8 from MY 2010 through MY 2012	40
1.46	Transmitter Power Output and Antenna Component Locations, A8 from 5/28/2012 through 8/26/2013	41
1.47	Transmitter Power Output and Antenna Component Locations, A8 from 09/02/2013 through MY 2017	41
1.48	Transmitter Power Output and Antenna Component Locations, A8 from MY 2018	42
1.49	Transmitter Power Output and Antenna Component Locations, Q2 from MY 2017 (Not for North America Market)	43
1.50	Transmitter Power Output and Antenna Component Locations, Q3 from MY 2012 through MY 2014	44
1.51	Transmitter Power Output and Antenna Component Locations, Q3 from MY 2015 through MY 2018	44
1.52	Transmitter Power Output and Antenna Component Locations, Q3 from MY 2019	45
1.53	Transmitter Power Output and Antenna Component Locations, Q4 from MY 2022	46
1.54	Transmitter Power Output and Antenna Component Locations, Q5 from MY 2008 through MY 2012	47
1.55	Transmitter Power Output and Antenna Component Locations, Q5 from MY 2013 through MY 2016	47
1.56	Transmitter Power Output and Antenna Component Locations, Q5 from MY 2017	48
1.57	Transmitter Power Output and Antenna Component Locations, Q7 from MY 2007 through MY 2012	49
1.58	Transmitter Power Output and Antenna Component Locations, Q7 from MY 2013 through MY 2015	49
1.59	Transmitter Power Output and Antenna Component Locations, Q7 from MY 2016	50
1.60	Transmitter Power Output and Antenna Component Locations, Q8 from MY 2019	51
1.61	Transmitter Power Output and Antenna Component Locations, R8 from MY 2007 through MY 2015	51
1.62	Transmitter Power Output and Antenna Component Locations, R8 from MY 2016	52
1.63	Transmitter Power Output and Antenna Component Locations, R8 from MY 2010 through MY 2016	52
1.64	Transmitter Power Output and Antenna Component Locations, R8 Spyder from MY 2017	53
1.65	Transmitter Power Output and Antenna Component Locations, TT from MY 1999 through MY 2006	54
1.66	Transmitter Power Output and Antenna Component Locations, TT from MY 2007 through MY 2014	55
1.67	Transmitter Power Output and Antenna Component Locations, TT from MY 2015	56
1.68	Transmitter Power Output and Antenna Component Locations, e-tron from MY 2019 through 11/27/2022	57

1.69	Transmitter Power Output and Antenna Component Locations, e-tron from 11/28/2022 . . .	58
1.70	Transmitter Power Output and Antenna Component Locations, e-tron GT from MY 2022 . . .	59



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## 91 – Radio, Telephone, Navigation

### 1 Retrofitting Transmitter/Receiver Units

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- ⇒ [11.1 information", page 4](#)
- ⇒ [P1.2 Power and Possible Component Locations", page 5](#)
- ⇒ [S1.3 Supply", page 5](#)
- ⇒ [a1.4 Ground Wiring", page 5](#)
- ⇒ [A1.5 Auxiliary Installations", page 6](#)
- ⇒ [B1.6 Battery / Radio / Fuses / Wiring Harnesses Overview", page 6](#)
- ⇒ [P1.7 Power Output and Antenna Component Locations, A1 from MY 2011 through MY 2012 \(Not for North America Market\)", page 8](#)
- ⇒ [P1.8 Power Output and Antenna Component Locations, A1, from MY 2013 through MY 2018 \(Not for North America Market\)", page 8](#)
- ⇒ [P1.9 Power Output and Antenna Component Locations, A1 from MY 2019 \(Not for North America Market\)", page 8](#)
- ⇒ [P1.10 Power Output and Antenna Component Locations, A2 from MY 2001 \(Not for North America Market\)", page 9](#)
- ⇒ [P1.11 Power Output and Antenna Component Locations, A3, from MY 1997 through MY 2003", page 10](#)
- ⇒ [P1.12 Power Output and Antenna Component Locations, A3, from MY 2004 through MY 2012", page 11](#)
- ⇒ [P1.13 Power Output and Antenna Component Locations, A3, A3 Sportback from MY 2013 through 7/15/2013", page 11](#)
- ⇒ [P1.14 Power Output and Antenna Component Locations, A3, A3 Sportback, A3 Sedan from 7/22/2013", page 12](#)
- ⇒ [P1.15 Power Output and Antenna Component Locations, A3 from MY 2021", page 13](#)
- ⇒ [P1.16 Power Output and Antenna Component Locations, A3 Cabriolet, from MY 2008 through MY 2014", page 13](#)
- ⇒ [P1.17 Power Output and Antenna Component Locations, A3 Cabriolet from MY 2015", page 14](#)
- ⇒ [P1.18 Power Output and Antenna Component Locations, A4 from MY 1995 through MY 2000", page 15](#)
- ⇒ [P1.19 Power Output and Antenna Component Locations, A4 from MY 2001 through MY 2007", page 17](#)
- ⇒ [P1.20 Power Output and Antenna Component Locations, A4 from MY 2008 through 3/5/2012", page 18](#)
- ⇒ [P1.21 Power Output and Antenna Component Locations, A4 from 03/12/2012 through MY 2015", page 19](#)
- ⇒ [P1.22 Power Output and Antenna Component Locations, A4 from MY 2016", page 20](#)
- ⇒ [P1.23 Power Output and Antenna Component Locations, A4 Cabriolet from MY 2003", page 22](#)
- ⇒ [P1.24 Power Output and Antenna Component Locations, A5 Coupe from MY 2008 through 3/5/2012", page 22](#)
- ⇒ [P1.25 Power Output and Antenna Component Locations, A5 Coupe from 03/12/2012 through MY 2016", page 23](#)
- ⇒ [P1.26 Power Output and Antenna Component Locations, A5 Coupe from MY 2017", page 24](#)
- ⇒ [P1.27 Power Output and Antenna Component Locations, A5 Sportback from MY 2010 through 3/5/2012", page 24](#)

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- Output and Antenna Component Locations, A8**  
**3 through MY 2017", page 41**



⇒ [P1.54 Power Output and Antenna Component Locations, Q5 from MY 2008 through MY 2012", page 47](#)

⇒ [P1.55 Power Output and Antenna Component Locations, Q5 from MY 2013 through MY 2016", page 47](#)

⇒ [P1.56 Power Output and Antenna Component Locations, Q5 from MY 2017", page 48](#)

⇒ [P1.57 Power Output and Antenna Component Locations, Q7 from MY 2007 through MY 2012", page 49](#)

⇒ [P1.58 Power Output and Antenna Component Locations, Q7 from MY 2013 through MY 2015", page 49](#)

⇒ [P1.59 Power Output and Antenna Component Locations, Q7 from MY 2016", page 50](#)

⇒ [P1.60 Power Output and Antenna Component Locations, Q8 from MY 2019", page 51](#)

⇒ [P1.61 Power Output and Antenna Component Locations, R8 from MY 2007 through MY 2015", page 51](#)

⇒ [P1.62 Power Output and Antenna Component Locations, R8 from MY 2016", page 52](#)

⇒ [P1.63 Power Output and Antenna Component Locations, R8 from MY 2010 through MY 2016", page 52](#)

⇒ [P1.64 Power Output and Antenna Component Locations, R8 Spyder from MY 2017", page 53](#)

⇒ [P1.65 Power Output and Antenna Component Locations, TT from MY 1999 through MY 2006", page 54](#)

⇒ [P1.66 Power Output and Antenna Component Locations, TT from MY 2007 through MY 2014", page 55](#)

⇒ [P1.67 Power Output and Antenna Component Locations, TT from MY 2015", page 56](#)

⇒ [P1.68 Power Output and Antenna Component Locations, e-tron from MY 2019 through 11/27/2022", page 57](#)

⇒ [P1.69 Power Output and Antenna Component Locations, e-tron from 11/28/2022", page 58](#)

⇒ [P1.70 Power Output and Antenna Component Locations, e-tron GT from MY 2022", page 59](#)

## 1.1 General Information

Before installing radios and telephone systems (transmitter/receiver units), disconnect the negative terminal of the Battery -A-. Refer to ⇒ Electrical Equipment; Rep. Gr. 27; Battery; Battery, Disconnecting and Connecting.

Use the applicable wiring diagrams. Refer to ⇒ Wiring diagrams, Troubleshooting & Component locations.

Secure wiring harnesses to cable ties. Wrap connector couplings with foam to prevent rattling.

Follow the manufacturer operating and installation instructions for cell phones, radios and antennas. Refer to ⇒ Operating Instructions.

- ◆ Disconnect and connect the Battery -A-. Refer to ⇒ Electrical Equipment; Rep. Gr. 27; Battery; Battery, Disconnecting and Connecting.
- ◆ Wiring diagrams, fuse assignment and component locations. Refer to ⇒ Wiring diagrams, Troubleshooting & Component locations.

- ◆ Trim Panels, Removing and Installing. Refer to ⇒ Body Interior; Rep. Gr. 70.
- ◆ Standard Devices, Removing and Installing. Refer to ⇒ Communication; Rep. Gr. 91.
- ◆ Antenna Wires, Repairing. Refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97; Wiring Harness and Connectors, Repairing; Antenna Wires, Repairing.
- ◆ Wiring Harnesses, Repairing. Refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97; Wiring Harness and Connectors, Repairing.

## 1.2 Transmitting Power and Possible Component Locations

Audi permits the installation and operation of radio systems, as long as the transmitting power at the antenna base (listed in the tables for the respective vehicle model) is not exceeded. For required antenna component locations and transmitting powers, refer to the tables [Refer to ⇒ P1.7 Power Output and Antenna Component Locations, A1 from MY 2011 through MY 2012 \(Not for North America Market\)](#), page 8.

The limits set forth in VDE 0848 Part 2 (maximum permissible field intensity to protect persons) must also be maintained even through reduction of transmission output.

## 1.3 Power Supply

When retrofitting radio systems in the vehicle, the Battery -A- is used to connect the positive and negative wires.

The wiring harness must also be made:

- ◆ Positive wire: 2.5 mm strong red wire
- ◆ Negative wire: 2.5 mm strong brown wire
- ◆ Terminal 15 wire: 1.5 mm strong black wire

The positive wire should be equipped with a fuse next to Battery A- Attach a fuse panel next to the Battery A- for this. Cover the positive and negative wires with an insulating hose. Attach with the appropriate cable shoes on the battery side. Proceed according to the radio system operating instructions on the device side. Refer to ⇒ Operating Instructions.

Route the additional wiring harness separately from the vehicle wiring (distance greater than 10 cm).



### Note

*Crossing the standard wiring is better than routing it parallel.*

## 1.4 Antenna and Wiring

A shielded wire must be used between the radio and the antenna. The shielding must be grounded on the device side and antenna side. At the same time, there must be a proper and stable ground connection for the antenna base wire to the vehicle body.

The transmitting system must only be used when shielded to avoid sheath waves in antenna wiring. To ensure the radio system is tuned and operating correctly, an output/performance test is recommended.



It is only possible to have "on glass" antennas on vehicles without insulated glass.

## 1.5 Other Auxiliary Installations

The installation of other electronic equipment such as business equipment (TV, FAX) or household equipment (electrical cooling box) is only permitted if these devices are marked with a CE or e-sign. Power must be supplied by a separate wiring harness equipped with a fuse.

## 1.6 Battery -A- / Radio / Fuses / Wiring Harnesses Overview



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**A - Battery -A-**

- ☐ Disconnect the Battery. Refer to ⇒ Electrical Equipment; Rep. Gr. 27; Battery; Battery, Disconnecting and Connecting.

**B - Radio, Telephone**

- ☐ Installation position, Removing and Installing. Refer to ⇒ Communication; Rep. Gr. 91.

**C - Wiring Harness**

- ☐ Must be made
- ☐ Positive wire (terminal 30) 2.5 diameter, red
- ☐ Ground wire (terminal 31) 2.5 diameter, brown
- ☐ Positive wire (terminal 15a) 1.5 diameter, black

**D - Fuse Panel**

- ☐ Next to the Battery -A-

**E - Terminal 15a**

- ☐ Always clipped on terminal 15a output
- ☐ Wire must be protected
- ☐ Fuse maximum 15 A

**F - To the Starter -B-**

- ☐ Standard wire

**G - Body Ground**

- ☐ Directly next to the Battery -A-

**H - Transmitting/Receiving Antenna**

- ☐ For required antenna component locations and transmitting powers, refer to the tables Refer to ⇒ [P1.7 over Output and Antenna Component Locations, A1 from MY 2011 through MY 2012 \(Not for North America Market\)", page 8](#).

**J - Antenna Ground**

- ☐ Proper and durable connection/corrosion protection

**K - Shielded Antenna Wire**

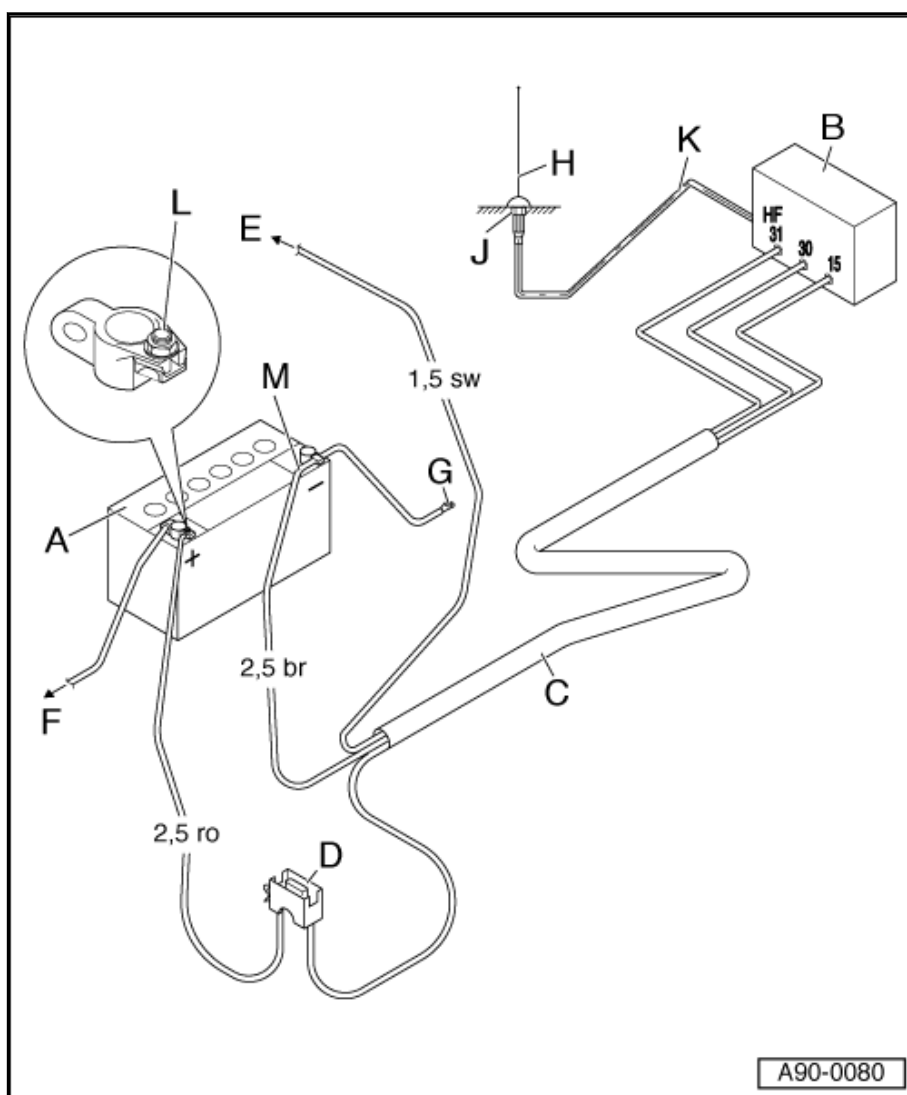
- ☐ Wire with coaxial connector

**L - Positive Connection**

- ☐ Secure red wire with cable shoe A6-2.5 under the nut
- ☐ If possible, route wiring harness separately

**M - Negative Wire**

- ☐ Secure brown wire with cable shoe A6-2.5 under the nut
- ☐ If possible, route wiring harness separately



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## 1.7 Transmitter Power Output and Antenna Component Locations, A1 from MY 2011 through MY 2012 (Not for North America Market)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
2 M band	50 (eff.)	Rear roof center
70 cm band	50 (eff.)	Rear roof center
D-network telephone	20 (PEP)	Front or rear roof center
23 cm band	25 (PEP)	Rear roof center
E-network telephone	10 (PEP)	Front or rear roof center
UMTS network	10 (PEP)	Front or rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.8 Transmitter Power Output and Antenna Component Locations, A1, from MY 2013 through MY 2018 (Not for North America Market)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Rear of the roof (15 to 25 cm from the rear roof edge)
70 cm band (430 to 480 MHz)	50 (eff.)	Rear of the roof (15 to 25 cm from the rear roof edge)
D-network telephone (820 to 980 MHz)	20 (PEP)	Roof center front (standard antenna position) Rear of the roof (15 to 25 cm from the rear roof edge)
E-network telephone (1700 to 1900 MHz)	10 (PEP)	Roof center front (standard antenna position) Rear of the roof (15 to 25 cm from the rear roof edge)
UMTS network telephone (1900 to 2100 MHz)	10 (PEP)	Roof center front (standard antenna position) Rear of the roof (15 to 25 cm from the rear roof edge)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

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## 1.9 Transmitter Power Output and Antenna Component Locations, A1 from MY 2019 (Not for North America Market)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave / CB radio (less than 30 MHz)	100 (PEP)	Rear Bumper



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
4 m (13.1 feet) band (68 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (144 to 174 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (410 to 470 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 395, 406 to 420, 450 to 460, 806 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D network telephone (824 to 850 MHz, 876 to 915 MHz)	2 (PEP)	Rear roof center section (installation position similar to standard antenna) Right roof spoiler (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1710 to 1785 MHz, 1850 to 1910 MHz)	1 (PEP)	Rear roof center section (installation position similar to standard antenna) Right roof spoiler (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1885 to 2025 MHz)	1 (PEP)	Rear roof center section (installation position similar to standard antenna) Right roof spoiler (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Rear roof center section (installation position similar to standard antenna) Right roof spoiler (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.10 Transmitter Power Output and Antenna Component Locations, A2 from MY 2001 (Not for North America Market)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Rear Bumper
4 m (13.1 feet) band	20 (eff.)	Left rear fender
2 m (6.6 feet) band	50 (eff.)	Left rear fender
70 cm band	50 (eff.)	Left rear fender



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
C-network telephone	25 (eff.)	Left rear fender Rear of the roof (12 cm from the roof edge in the center of the vehicle) Left rear side windows "on glass"
D-network telephone	20 (PEP)	Left rear fender Rear of the roof (12 cm from the roof edge in the center of the vehicle) Left rear side windows "on glass"
E-network telephone	10 (PEP)	Left rear fender Rear of the roof (12 cm from the roof edge in the center of the vehicle) Left rear side windows "on glass"

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.11 Transmitter Power Output and Antenna Component Locations, A3, from MY 1997 through MY 2003

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Roof center rear Rear bumper
4 m (13.1 feet) band	20 (eff.)	Rear roof center
2 m (6.6 feet) band	50 (eff.)	Roof center rear Right rear side panel
2 m (6.6 feet) band	20 (eff.)	Front of the roof (15 cm from the window edge in the center of the vehicle) Roof center rear Left or right rear side panel
70 cm band	50 (eff.)	Roof center rear Right rear side panel
C-network telephone	25 (eff.)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-) Left or right rear side windows "on glass"
D-network telephone	20 (PEP)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-) Left or right rear side windows "on glass"
E-network telephone	10 (PEP)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-) Left or right rear side windows "on glass"

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

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**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.12 Transmitter Power Output and Antenna Component Locations, A3, from MY 2004 through MY 2012

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
4 m (13.1 feet) band	20 (eff.)	Rear roof center
2 m (6.6 feet) band	50 (eff.)	Rear roof center
70 cm band	50 (eff.)	Rear roof center
D-network telephone	20 (PEP)	Rear roof center
E-network telephone	10 (PEP)	Rear roof center
Bluetooth (2400 to 2483 MHz)	500 mW	Under the front passenger seat
UMTS network	10 W	Rear of the roof Center of rear lid
Short-range radar (76.5 GHz)	Less than 10 mW	Behind the radiator grille

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.13 Transmitter Power Output and Antenna Component Locations, A3, A3 Sportback from MY 2013 through 7/15/2013

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Rear roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Rear roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 410 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	10 (PEP)	Rear roof center
E-network telephone (1700 to 1900 MHz)	5 (PEP)	Rear roof center

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
UMTS network telephone (1900 to 2100 MHz)	5 (PEP)	Rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

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## 1.14 Transmitter Power Output and Antenna Component Locations, A3, A3 Sportback, A3 Sedan from 7/22/2013

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Rear roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Rear roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.15 Transmitter Power Output and Antenna Component Locations, A3 from MY 2021

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave / CB radio (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (68 to 87.5 MHz)	20 (eff.)	Rear roof center
2 m (6.6 feet) band (144 to 174 MHz)	50 (eff.)	Rear roof center
70 cm band (410 to 470 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 395, 406 to 420, 450 to 470, 806 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D network telephone (824 to 850 MHz, 876 to 915 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1710 to 1785 MHz, 1850 to 1910 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1885 to 2025 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



### WARNING

***If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.***

## 1.16 Transmitter Power Output and Antenna Component Locations, A3 Cabriolet, from MY 2008 through MY 2014

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	10 (PEP)	Rear lid center Rear bumper
4 m (13.1 feet) band	10 (eff.)	Rear lid center Left rear fender
2 m (6.6 feet) band	10 (eff.)	Rear lid center Left rear fender
70 cm band	10 (eff.)	Rear lid center Rear bumper

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
D-network telephone	10 (PEP)	Center of windshield at the top
E-network telephone	10 (PEP)	Center of windshield at the top
Bluetooth (2400 to 2483 MHz)	500 mW	Under the front passenger seat
UMTS network	10 mW	Center of windshield at the top
Short-range radar (76.5 GHz)	Less than 10 mW	Behind the radiator grille

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.17 Transmitter Power Output and Antenna Component Locations, A3 Cabriolet from MY 2015

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Rear Lid
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Rear Lid
70 cm band (430 to 480 MHz)	50 (eff.)	Rear Lid
TETRA (380 to 390, 410 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear Lid
D-network telephone (820 to 980 MHz)	2 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.18 Transmitter Power Output and Antenna Component Locations, A4 from MY 1995 through MY 2000

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**Sedan**

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Rear lid center Rear bumper
4 m (13.1 feet) band	20 (eff.)	Rear of the roof (32.5 cm from the window edge in the center of the vehicle) Left rear fender
2 m (6.6 feet) band	50 (eff.)	Center of rear lid, rear bumper Left rear fender
2 m (6.6 feet) band	20 (eff.)	Rear of the roof (32.5 cm from the window edge in the center of the vehicle) Left or right rear fender
70 cm band	50 (eff.)	Center of rear lid Right rear fender
C-network telephone	25 (eff.)	Left or right rear fender Top edge of rear window "on glass"
D-network telephone	20 (PEP)	Left rear fender Top edge of rear window "on glass" Left or right rear side windows
E-network telephone	10 (PEP)	Left rear fender Top edge of rear window "on glass" Left or right rear side windows

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

**Avant**

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Roof center rear Rear bumper
4 m (13.1 feet) band	20 (eff.)	Rear roof center
2 m (6.6 feet) band	50 (eff.)	Roof center rear Right rear side panel
2 m (6.6 feet) band	20 (eff.)	Roof center rear Left or right rear side panel



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
70 cm band	50 (eff.)	Roof center rear Right rear side panel
C-network telephone	25 (eff.)	Rear of the roof (like Radio/Telephone/Navigation System Antenna -R52-) Left or right rear side window "on glass"
D-network telephone	20 (PEP)	Rear of the roof (like Radio/Telephone/Navigation System Antenna -R52-) Left or right rear side window "on glass"
E-network telephone	10 (PEP)	Rear of the roof (like Radio/Telephone/Navigation System Antenna -R52-) Left or right rear side window "on glass"

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

**Convertible**

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	10 (PEP)	Rear Bumper
4 m (13.1 feet) band	10 (eff.)	Right rear fender
2 m (6.6 feet) band	10 (eff.)	Left of right rear fender Rear bumper
70 cm band	10 (eff.)	Rear Bumper
C-network telephone	10 (eff.)	Left or right rear fender
D-network telephone	10 (PEP)	Left or right rear fender
E-network telephone	10 (PEP)	Left or right rear fender

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*



## 1.19 Transmitter Power Output and Antenna Component Locations, A4 from MY 2001 through MY 2007

### Sedan

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Rear lid center Rear bumper
4 m (13.1 feet) band	20 (eff.)	Rear of the roof (22 cm from the window edge in the center of the vehicle) Left rear fender
2 m (6.6 feet) band	50 (eff.)	Center of rear lid, rear bumper Left rear fender
2 m (6.6 feet) band	20 (eff.)	Rear of the roof (22 cm from the window edge in the center of the vehicle) Left or right rear fender
70 cm band	50 (eff.)	Rear lid center Left rear fender
C-network telephone	25 (eff.)	Rear of the roof (22 cm from the window edge in the center of the vehicle) Left or right rear fender
D-network telephone	20 (PEP)	Rear of the roof (22 cm from the window edge in the center of the vehicle) Left or right rear fender Left or right rear side windows "on glass"
E-network telephone	10 (PEP)	Rear of the roof (22 cm from the window edge in the center of the vehicle) Left or right rear fender Left or right rear side windows "on glass"

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### Avant

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-) Rear bumper
4 m (13.1 feet) band	20 (eff.)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-) Roof center (61 cm from the rear window in the center of the vehicle)
2 m (6.6 feet) band	50 (eff.)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-) Roof center (61 cm from the rear window in the center of the vehicle)



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
2 m (6.6 feet) band	20 (eff.)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-) Roof center (61 cm from the rear window in the center of the vehicle)
70 cm band	50 (eff.)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-)
C-network telephone	25 (eff.)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-)
D-network telephone	20 (PEP)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-)
E-network telephone	10 (PEP)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.20 Transmitter Power Output and Antenna Component Locations, A4 from MY 2008 through 3/5/2012

### Sedan

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Trailer hitch Center of rear lid
4 m (13.1 feet) band	20 (eff.)	Center of roof center Roof center rear (15-30 cm from the rear window edge in the center of the vehicle)
2 m (6.6 feet) band	50 (eff.)	Center of roof center Roof center rear (15-30 cm from the rear window edge in the center of the vehicle)
70 cm band	50 (eff.)	Center of roof center Roof center rear (15-30 cm from the rear window edge in the center of the vehicle)
D-network telephone	20 (PEP)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-)
E-network telephone	10 (PEP)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

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**Avant**

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band	20 (eff.)	Center of roof center roof center rear
2 m (6.6 feet) band	50 (eff.)	Center of roof center roof center rear
70 cm band	50 (eff.)	Rear roof center
D-network telephone	20 (PEP)	Rear roof center
E-network telephone	10 (PEP)	Rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.21 Transmitter Power Output and Antenna Component Locations, A4 from 03/12/2012 through MY 2015

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**Sedan**

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear, center of roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear, center of roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 410 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	10 (PEP)	Rear roof center
E-network telephone (1700 to 1900 MHz)	5 (PEP)	Rear roof center
UMTS network telephone (1900 to 2100 MHz)	5 (PEP)	Rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### Avant

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear, center of roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear, center of roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 410 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	10 (PEP)	Rear roof center
E-network telephone (1700 to 1900 MHz)	5 (PEP)	Rear roof center
UMTS network telephone (1900 to 2100 MHz)	5 (PEP)	Rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.22 Transmitter Power Output and Antenna Component Locations, A4 from MY 2016

### Sedan

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

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#### Avant

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.23 Transmitter Power Output and Antenna Component Locations, A4 Cabriolet from MY 2003

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	10 (PEP)	Rear Bumper
4 m (13.1 feet) band	10 (eff.)	Left rear fender
2 m (6.6 feet) band	10 (eff.)	Left rear fender
70 cm band	10 (eff.)	Left rear fender
C-network telephone	10 (eff.)	Left rear fender
D-network telephone	10 (PEP)	Center of rear lid Left rear fender
E-network telephone	10 (PEP)	Center of rear lid Left rear fender

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.24 Transmitter Power Output and Antenna Component Locations, A5 Coupe from MY 2008 through 3/5/2012

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Trailer hitch Center of rear lid
4 m (13.1 feet) band	20 (eff.)	Center of roof center Roof center rear (15-30 cm from the rear window edge in the center of the vehicle)
2 m (6.6 feet) band	50 (eff.)	Center of roof center Roof center rear (15-30 cm from the rear window edge in the center of the vehicle)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
70 cm band	50 (eff.)	Center of roof center Roof center rear (15-30 cm from the rear window edge in the center of the vehicle)
D-network telephone	20 (PEP)	Center of roof center Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-)
E-network telephone	10 (PEP)	Center of roof center Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.25 Transmitter Power Output and Antenna Component Locations, A5 Coupe from 03/12/2012 through MY 2016

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear, center of roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear, center of roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 410 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	10 (PEP)	Rear roof center
E-network telephone (1700 to 1900 MHz)	5 (PEP)	Rear roof center
UMTS network telephone (1900 to 2100 MHz)	5 (PEP)	Rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

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## 1.26 Transmitter Power Output and Antenna Component Locations, A5 Coupe from MY 2017

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.27 Transmitter Power Output and Antenna Component Locations, A5 Sportback from MY 2010 through 3/5/2012

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Trailer hitch Center of rear lid
4 m (13.1 feet) band	20 (eff.)	Center of roof center Roof center rear (15-30 cm from the rear window edge in the center of the vehicle)
2 m (6.6 feet) band	50 (eff.)	Center of roof center Roof center rear (15-30 cm from the rear window edge in the center of the vehicle)



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
70 cm band	50 (eff.)	Center of roof center Roof center rear (15-30 cm from the rear window edge in the center of the vehicle)
D-network telephone	20 (PEP)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-)
E-network telephone	10 (PEP)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.28 Transmitter Power Output and Antenna Component Locations, A5 Sportback from 03/12/2012 through MY 2016

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear, center of roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear, center of roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 410 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	10 (PEP)	Rear roof center
E-network telephone (1700 to 1900 MHz)	5 (PEP)	Rear roof center
UMTS network telephone (1900 to 2100 MHz)	5 (PEP)	Rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.29 Transmitter Power Output and Antenna Component Locations, A5 Sportback from MY 2017

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



### WARNING

***If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.***

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## 1.30 Transmitter Power Output and Antenna Component Locations, A5 Cabriolet from MY 2009 through 3/5/2012

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Rear bumper/rear lid
4 m (13.1 feet) band	20 (eff.)	Center of the rear lid, left rear wheel housing
2 m (6.6 feet) band	50 (eff.)	Center of the rear lid, left rear wheel housing
70 cm band	50 (eff.)	Center of the rear lid, left rear wheel housing
D-network telephone	20 (PEP)	Center of the rear lid, left rear wheel housing
E-network telephone	10 (PEP)	Center of the rear lid, left rear wheel housing

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.31 Transmitter Power Output and Antenna Component Locations, A5 Cabriolet from 03/12/2012 through 10/31/2016

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	10 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	10 (eff.)	Center of the rear lid, left rear wheel housing
2 m (6.6 feet) band (135 to 175 MHz)	10 (eff.)	Center of the rear lid, left rear wheel housing
70 cm band (430 to 480 MHz)	10 (eff.)	Center of the rear lid, left rear wheel housing
D-network telephone (820 to 980 MHz)	10 (PEP)	Center of the rear lid, left rear wheel housing
E-network telephone (1700 to 1900 MHz)	5 (PEP)	Center of the rear lid, left rear wheel housing
UMTS network telephone (1900 to 2100 MHz)	5 (PEP)	Center of the rear lid, left rear wheel housing

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

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### 1.32 Transmitter Power Output and Antenna Component Locations, A5 Cabriolet from 11/7/2016

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	10 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	10 (eff.)	Rear Lid
2 m (6.6 feet) band (135 to 175 MHz)	10 (eff.)	Rear Lid
70 cm band (430 to 480 MHz)	10 (eff.)	Rear Lid
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	10 (PEP)	Rear Lid



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
D-network telephone (820 to 980 MHz)	2 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.33 Transmitter Power Output and Antenna Component Locations, A6, from MY 1998 through MY 2004

#### Sedan

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Rear lid center Rear bumper
4 m (13.1 feet) band	20 (eff.)	Rear of the roof (22 cm from the window edge in the center of the vehicle) Left rear fender
2 m (6.6 feet) band	50 (eff.)	Center of rear lid Rear bumper Right rear fender
2 m (6.6 feet) band	20 (eff.)	Rear of the roof (22 cm from the window edge in the center of the vehicle) Left or right rear fender
70 cm band	50 (eff.)	Center of rear lid Right rear fender
C-network telephone	25 (eff.)	Left or right rear fender Top edge of rear window "on glass"
D-network telephone	20 (PEP)	Left rear fender Top edge of rear window "on glass" Left or right rear side window
E-network telephone	10 (PEP)	Left rear fender Top edge of rear window "on glass" Left or right rear side window

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

**Avant**

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Roof center rear Rear bumper
4 m (13.1 feet) band	20 (eff.)	Rear roof center
2 m (6.6 feet) band	50 (eff.)	Roof center rear Right rear side panel
2 m (6.6 feet) band	20 (eff.)	Roof center rear Left/right rear side panel
70 cm band	50 (eff.)	Roof center rear Right rear side panel
C-network telephone	25 (eff.)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-) Left or right rear side window "on glass"
D-network telephone	20 (PEP)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-) Left or right rear side window "on glass"
E-network telephone	10 (PEP)	Roof center rear (like Radio/Telephone/Navigation System Antenna -R52-) Left or right rear side window "on glass"

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.34 Transmitter Power Output and Antenna Component Locations, A6, from MY 2005 through MY 2010

**Sedan**

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Rear bumper Center of roof edge near rear window
4 m (13.1 feet) band	20 (eff.)	Left rear fender Center of roof edge near rear window
2 m (6.6 feet) band	50 (eff.)	Left rear fender Center of roof edge near rear window
70 cm band	50 (eff.)	Left rear fender Center of roof edge near rear window



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
D-network telephone	20 (PEP)	Left rear fender Center of roof edge near rear window
E-network telephone	10 (PEP)	Left rear fender Center of roof edge near rear window

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### Avant

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Rear bumper Center of roof edge near rear window
4 m (13.1 feet) band	20 (eff.)	Left rear side panel Center of roof edge near rear window
2 m (6.6 feet) band	50 (eff.)	Left rear side panel Center of roof edge near rear window
70 cm band	50 (eff.)	Left rear side panel Center of roof edge near rear window
D-network telephone	20 (PEP)	Left rear side panel Center of roof edge near rear window
E-network telephone	10 (PEP)	Left rear side panel Center of roof edge near rear window

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

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#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.35 Transmitter Power Output and Antenna Component Locations, A6 from MY 2011 through MY 2012

### Sedan

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Center of the rear lid
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear Left rear fender (10 to 30 cm from the vehicle rear lid end edge)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
70 cm band (430 to 480 MHz)	50 (eff.)	Roof center rear Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
D-network telephone (820 to 980 MHz)	20 (PEP)	Roof center rear (standard roof antenna position)
E-network telephone (1700 to 1900 MHz)	10 (PEP)	Roof center rear (standard roof antenna position)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### Avant

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
70 cm band (430 to 480 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
D-network telephone (820 to 980 MHz)	20 (PEP)	Roof center rear (standard roof antenna position)
E-network telephone (1700 to 1900 MHz)	10 (PEP)	Roof center rear (standard roof antenna position)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

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## 1.36 Transmitter Power Output and Antenna Component Locations, A6 from MY 2013 through MY 2014

### Sedan

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Center of the rear lid
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
70 cm band (430 to 480 MHz)	50 (eff.)	Roof center rear Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Roof center rear Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
D-network telephone (820 to 980 MHz)	20 (PEP)	Roof center rear (standard roof antenna position)
E-network telephone (1700 to 1900 MHz)	10 (PEP)	Roof center rear (standard roof antenna position)
UMTS network telephone (1900 to 2100 MHz)	10 (PEP)	Roof center rear (standard roof antenna position)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### Avant

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
70 cm band (430 to 480 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
D-network telephone (820 to 980 MHz)	20 (PEP)	Roof center rear (standard roof antenna position)
E-network telephone (1700 to 1900 MHz)	10 (PEP)	Roof center rear (standard roof antenna position)
UMTS network telephone (1900 to 2100 MHz)	10 (PEP)	Roof center rear (standard roof antenna position)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

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## 1.37 Transmitter Power Output and Antenna Component Locations, A6 from MY 2015 through MY 2018

### Sedan

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
70 cm band (430 to 480 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output



PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

**Avant**

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
70 cm band (430 to 480 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.38 Transmitter Power Output and Antenna Component Locations, A6 from MY 2019

### Sedan

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### Avant

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.39 Transmitter Power Output and Antenna Component Locations, A7 Sportback from MY 2011 through MY 2012

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Trailer Hitch
4 M band	20 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
2 M band	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
70 cm band	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
D-network telephone	20 (PEP)	Roof center rear Roof Antenna -R216- standard position
E-network telephone	10 (PEP)	Roof center rear Roof Antenna -R216- standard position

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.40 Transmitter Power Output and Antenna Component Locations, A7 Sportback from MY 2013 through MY 2014

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
70 cm band (430 to 480 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
D-network telephone (820 to 980 MHz)	20 (PEP)	Roof center rear (standard roof antenna position)
E-network telephone (1700 to 1900 MHz)	10 (PEP)	Roof center rear (standard roof antenna position)
UMTS network telephone (1900 to 2100 MHz)	10 (PEP)	Roof center rear (standard roof antenna position)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.41 Transmitter Power Output and Antenna Component Locations, A7 Sportback from MY 2015 through MY 2018

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
70 cm band (430 to 480 MHz)	50 (eff.)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Roof center rear (near rear window) Left rear fender (10 to 30 cm from the vehicle rear lid end edge)
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

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eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*


## 1.42 Transmitter Power Output and Antenna Component Locations, A7 from MY 2019

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



**WARNING**


*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.43 Transmitter Power Output and Antenna Component Locations, A8, from MY 1994 through MY 2002

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Rear Bumper
4 m (13.1 feet) band	20 (eff.)	Right rear fender
2 m (6.6 feet) band	50 (eff.)	Rear bumper Right rear fender
2 m (6.6 feet) band	20 (eff.)	Left or right rear fender
70 cm band	50 (eff.)	Right rear fender
C-network telephone	25 (eff.)	Left or right rear fender Top edge of rear window "on glass"
D-network telephone	20 (PEP)	Left rear fender Top edge of rear window "on glass" Left or right rear side window
E-network telephone	10 (PEP)	Left rear fender Top edge of rear window "on glass" Left or right rear side window

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.44 Transmitter Power Output and Antenna Component Locations, A8, from MY 2003 through MY 2009

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band	20 (eff.)	Left or right rear fender
2 m (6.6 feet) band	50 (eff.)	Left or right rear fender
70 cm band	50 (eff.)	Right rear fender
D-network telephone	20 (PEP)	Left rear fender Top of rear window at right (black lettering area) "on glass"
E-network telephone	10 (PEP)	Left rear fender Top of rear window at right (black lettering area) "on glass"

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.45 Transmitter Power Output and Antenna Component Locations, A8 from MY 2010 through MY 2012

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band	20 (eff.)	Left or right rear fender
2 m (6.6 feet) band	50 (eff.)	Left or right rear fender
70 cm band	50 (eff.)	Right rear fender
D-network telephone	20 (PEP)	Roof center rear (Roof Antenna -R216- position)
E-network telephone	10 (PEP)	Roof center rear (Roof Antenna -R216- position)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*



## 1.46 Transmitter Power Output and Antenna Component Locations, A8 from 5/28/2012 through 8/26/2013

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Right or left rear fender (10 to 30 cm from vehicle rear lid end edge)
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Right or left rear fender (10 to 30 cm from vehicle rear lid end edge)
70 cm band (430 to 480 MHz)	50 (eff.)	Right or left rear fender (10 to 30 cm from vehicle rear lid end edge)
TETRA (380 to 390, 410 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Roof center rear Left or right rear fender (10 to 30 cm from the vehicle rear lid end edge)
D-network telephone (820 to 980 MHz)	20 (PEP)	Roof center rear (standard roof antenna position) Right/left bumper (on the longitudinal member bolting point) Center of bumper
E-network telephone (1700 to 1900 MHz)	10 (PEP)	Roof center rear (standard roof antenna position) Right/left bumper (on the longitudinal member bolting point) Center of bumper
UMTS network telephone (1900 to 2100 MHz)	10 (PEP)	Roof center rear (standard roof antenna position) Right/left bumper (on the longitudinal member bolting point) Center of bumper

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.47 Transmitter Power Output and Antenna Component Locations, A8 from 09/02/2013 through MY 2017

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Right/left rear fender (10 to 30 cm from vehicle rear lid end edge)
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Right/left rear fender (10 to 30 cm from vehicle rear lid end edge)
70 cm band (430 to 480 MHz)	50 (eff.)	Right/left rear fender (10 to 30 cm from vehicle rear lid end edge)
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Roof center rear Left/right rear fender (10 to 30 cm from the vehicle rear lid end edge)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
D-network telephone (820 to 980 MHz)	20 (PEP)	Roof center rear (standard roof antenna position) Left/right rear fender (10 to 30 cm from the vehicle rear lid end edge) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	10 (PEP)	Roof center rear (standard roof antenna position) Left/right rear fender (10 to 30 cm from the vehicle rear lid end edge) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	10 (PEP)	Roof center rear (standard roof antenna position) Left/right rear fender (10 to 30 cm from the vehicle rear lid end edge) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

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## 1.48 Transmitter Power Output and Antenna Component Locations, A8 from MY 2018

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.49 Transmitter Power Output and Antenna Component Locations, Q2 from MY 2017 (Not for North America Market)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Rear roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Rear roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

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**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.50 Transmitter Power Output and Antenna Component Locations, Q3 from MY 2012 through MY 2014

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear, center of roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear, center of roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 410 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	10 (PEP)	Rear roof center
E-network telephone (1700 to 1900 MHz)	5 (PEP)	Rear roof center
UMTS network telephone (1900 to 2100 MHz)	5 (PEP)	Rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.51 Transmitter Power Output and Antenna Component Locations, Q3 from MY 2015 through MY 2018

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Rear roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Rear roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.52 Transmitter Power Output and Antenna Component Locations, Q3 from MY 2019

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave / CB radio (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (68 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (144 to 174 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (410 to 470 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 395, 406 to 420, 450 to 460, 806 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D network telephone (824 to 850 MHz, 876 to 915 MHz)	2 (PEP)	Rear roof center section (installation position similar to standard antenna) Right roof spoiler (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
E-network telephone (1710 to 1785 MHz, 1850 to 1910 MHz)	1 (PEP)	Rear roof center section (installation position similar to standard antenna) Right roof spoiler (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1885 to 2025 MHz)	1 (PEP)	Rear roof center section (installation position similar to standard antenna) Right roof spoiler (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Rear roof center section (installation position similar to standard antenna) Right roof spoiler (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.53 Transmitter Power Output and Antenna Component Locations, Q4 from MY 2022

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (3.5...29.7 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (68 to 87.5 MHz)	20 (eff.)	Rear roof center
2 m (6.6 feet) band (144 to 174 MHz)	50 (eff.)	Rear roof center
70 cm band (410 to 470 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 395, 406 to 420, 450 to 460, 806 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D network telephone (824 to 850 MHz, 876 to 915 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1710 to 1785 MHz, 1850 to 1910 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1885 to 2025 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.54 Transmitter Power Output and Antenna Component Locations, Q5 from MY 2008 through MY 2012

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band	20 (eff.)	Center of roof center roof center rear
2 m (6.6 feet) band	50 (eff.)	Center of roof center roof center rear
70 cm band	50 (eff.)	Rear roof center
D-network telephone	20 (PEP)	Rear roof center
E-network telephone	10 (PEP)	Rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

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#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.55 Transmitter Power Output and Antenna Component Locations, Q5 from MY 2013 through MY 2016

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear, center of roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear, center of roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
TETRA (380 to 390, 410 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	10 (PEP)	Rear roof center
E-network telephone (1700 to 1900 MHz)	5 (PEP)	Rear roof center
UMTS network telephone (1900 to 2100 MHz)	5 (PEP)	Rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.56 Transmitter Power Output and Antenna Component Locations, Q5 from MY 2017

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Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.57 Transmitter Power Output and Antenna Component Locations, Q7 from MY 2007 through MY 2012

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band	20 (eff.)	Center of roof center roof center rear
2 m (6.6 feet) band	50 (eff.)	Center of roof center roof center rear
70 cm band	50 (eff.)	Rear roof center
D-network telephone	20 (PEP)	Rear roof center
E-network telephone	10 (PEP)	Rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

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### 1.58 Transmitter Power Output and Antenna Component Locations, Q7 from MY 2013 through MY 2015

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Roof center rear, center of roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Roof center rear, center of roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 410 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	20 (PEP)	Roof center rear (standard roof antenna position)
E-network telephone (1700 to 1900 MHz)	10 (PEP)	Roof center rear (standard roof antenna position)



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
UMTS network telephone (1900 to 2100 MHz)	10 (PEP)	Roof center rear (standard roof antenna position)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.59 Transmitter Power Output and Antenna Component Locations, Q7 from MY 2016

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.60 Transmitter Power Output and Antenna Component Locations, Q8 from MY 2019

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.61 Transmitter Power Output and Antenna Component Locations, R8 from MY 2007 through MY 2015

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
CB radio (11 m (36.1 feet) band)	25 (PEP)	Rear roof center
2 m (6.6 feet) band	25 (eff.)	Rear roof center
70 cm band	25 (eff.)	Rear roof center
23 cm band	10 (PEP)	Rear roof center
D-network telephone	20 (PEP)	Rear roof center
E-network telephone	10 (PEP)	Rear roof center

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.62 Transmitter Power Output and Antenna Component Locations, R8 from MY 2016

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
CB radio (11 m (36.1 feet) band)	25(PEP)	Rear roof center
2 m (6.6 feet) band (135 to 175 MHz)	25(eff.)	Rear roof center
70 cm band (430 to 480 MHz)	25(eff.)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

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## 1.63 Transmitter Power Output and Antenna Component Locations, R8 from MY 2010 through MY 2016

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
CB radio (11 m (36.1 feet) band)	10 (PEP)	Left or right rear fender
2 m (6.6 feet) band	10 (eff.)	Left or right rear fender
70 cm band	10 (eff.)	Left or right rear fender

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
23 cm band	10 (PEP)	Left or right rear fender
D-network telephone	10 (PEP)	Left or right rear fender
E-network telephone	10 (PEP)	Left or right rear fender

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

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## 1.64 Transmitter Power Output and Antenna Component Locations, R8 Spyder from MY 2017

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
CB radio (11 m (36.1 feet) band)	10 (PEP)	Left rear fender
2 m (6.6 feet) band (135 to 175 MHz)	10 (eff.)	Left rear fender
70 cm band (430 to 480 MHz)	10 (eff.)	Left rear fender
D-network telephone (820 to 980 MHz)	2 (PEP)	Left rear fender right/left front bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Left rear fender right/left front bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Left rear fender right/left front bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Left rear fender right/left front bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*



## 1.65 Transmitter Power Output and Antenna Component Locations, TT from MY 1999 through MY 2006

### Coupe

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Rear Bumper
4 m (13.1 feet) band	20 (eff.)	Left rear fender
2 m (6.6 feet) band	50 (eff.)	Rear of the roof (12 cm from the roof edge in the center of the vehicle) Left rear fender
70 cm band	50 (eff.)	Left rear fender
C-network telephone	25 (eff.)	Left rear fender Rear of the roof (12 cm from the roof edge in the center of the vehicle) Top edge of rear window "on glass"
D-network telephone	20 (PEP)	Left rear fender Rear of the roof (12 cm from the roof edge in the center of the vehicle) Top edge of rear window "on glass" Left or right rear side windows
E-network telephone	10 (PEP)	Left rear fender Rear of the roof (12 cm from the roof edge in the center of the vehicle) Top edge of rear window "on glass" Left or right rear side windows

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### Roadster

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	10 (PEP)	Rear Bumper
4 m (13.1 feet) band	10 (eff.)	Rear lid center Left rear fender
2 m (6.6 feet) band	10 (eff.)	Rear lid center Left rear fender
70 cm band	10 (eff.)	Rear lid center Rear bumper
C-network telephone		Rear lid center Left rear fender
D-network telephone	10 (PEP)	Left rear fender
E-network telephone	10 (PEP)	Left rear fender

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.66 Transmitter Power Output and Antenna Component Locations, TT from MY 2007 through MY 2014

### Coupe

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	100 (PEP)	Rear Bumper
4 m (13.1 feet) band	20 (eff.)	Left rear fender
2 m (6.6 feet) band	50 (eff.)	Roof center rear Left rear fender
70 cm band	50 (eff.)	Left rear fender
D-network telephone	20 (PEP)	Roof center rear Left rear fender Top edge of rear window "on glass" Left or right rear side windows
E-network telephone	10 (PEP)	Roof center rear Left rear fender Top edge of rear window "on glass" Left or right rear side windows
Bluetooth (2400 to 2483 MHz)	500 mW	Under the front passenger seat
UMTS network	10 W	Rear roof center
Short-range radar (76.5 GHz)	Less than 10 mW	Behind the radiator grille

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### Roadster

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 54 MHz)	10 (PEP)	Rear lid center Rear bumper
4 m (13.1 feet) band	10 (eff.)	Rear lid center Left rear fender
2 m (6.6 feet) band	10 (eff.)	Rear lid center Left rear fender



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
70 cm band	10 (eff.)	Rear lid center Rear bumper
D-network telephone	10 (PEP)	Center of windshield at the top
E-network telephone	10 (PEP)	Center of windshield at the top
Bluetooth (2400 to 2483 MHz)	500 mW	Under the front passenger seat
UMTS network	10 mW	Center of windshield at the top
Short-range radar (76.5 GHz)	Less than 10 mW	Behind the radiator grille

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.67 Transmitter Power Output and Antenna Component Locations, TT from MY 2015

### Coupe

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	20 (eff.)	Rear roof center
2 m (6.6 feet) band (135 to 175 MHz)	50 (eff.)	Rear roof center
70 cm band (430 to 480 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D-network telephone (820 to 980 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right rear bumper (installation position similar to standard antenna)



eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### Roadster

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave (less than 30 MHz)	10 (PEP)	Trailer Hitch
4 m (13.1 feet) band (64 to 87.5 MHz)	10 (eff.)	Rear Lid
2 m (6.6 feet) band (135 to 175 MHz)	10 (eff.)	Rear Lid
70 cm band (430 to 480 MHz)	10 (eff.)	Rear Lid
TETRA (380 to 390, 406 to 420, 450 to 470, 800 to 825, 870 to 876 MHz)	10 (PEP)	Rear Lid
D-network telephone (820 to 980 MHz)	2 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Rear lid Left/right rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



#### WARNING

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

### 1.68 Transmitter Power Output and Antenna Component Locations, e-tron from MY 2019 through 11/27/2022

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave / CB radio (3.5 to 29.7 MHz)	100 (PEP)	Trailer Hitch



Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
4 m (13.1 feet) band (68 to 87.5 MHz)	20 (eff.)	Center of roof center, roof center rear
2 m (6.6 feet) band (144 to 174 MHz)	50 (eff.)	Center of roof center, roof center rear
70 cm band (410 to 470 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 395, 406 to 420, 450 to 460, 806 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D network telephone (824 to 850 MHz, 876 to 915 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right/center rear bumper (installation position similar to standard antenna)
E-network telephone (1710 to 1785 MHz, 1850 to 1910 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right/center rear bumper (installation position similar to standard antenna)
UMTS network telephone (1885 to 2025 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right/center rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right/center rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)

**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.69 Transmitter Power Output and Antenna Component Locations, e-tron from 11/28/2022


Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
Short wave / CB radio (3.5 to 29.7 MHz)	100 (PEP)	Trailer Hitch
4 m (13.1 feet) band (68 to 87.5 MHz)	20 (eff.)	Rear roof center
70 cm band (410 to 470 MHz)	50 (eff.)	Rear roof center
TETRA (380 to 395, 406 to 420, 450 to 460, 806 to 825, 870 to 876 MHz)	30 (PEP)	Rear roof center
D network telephone (824 to 850 MHz, 876 to 915 MHz)	2 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right/center rear bumper (installation position similar to standard antenna)

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Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
E-network telephone (1710 to 1785 MHz, 1850 to 1910 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right/center rear bumper (installation position similar to standard antenna)
UMTS network telephone (1885 to 2025 MHz)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right/center rear bumper (installation position similar to standard antenna)
LTE (E-UTRA bands 1 through 41 and 44)	1 (PEP)	Roof center rear (installation position similar to standard antenna) Left/right/center rear bumper (installation position similar to standard antenna)

eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



**WARNING**


*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

## 1.70 Transmitter Power Output and Antenna Component Locations, e-tron GT from MY 2022

Designation	P <sub>max</sub> (Watt)	Specified Antenna Component Locations
D-network telephone (820 to 980 MHz)	2 (PEP)	Left/right rear bumper (installation position similar to standard antenna)
E-network telephone (1700 to 1900 MHz)	1 (PEP)	Left/right rear bumper (installation position similar to standard antenna)
UMTS network telephone (1900 to 2100 MHz)	1 (PEP)	Left/right rear bumper (installation position similar to standard antenna)
LTE	1 (PEP)	Left/right rear bumper (installation position similar to standard antenna)

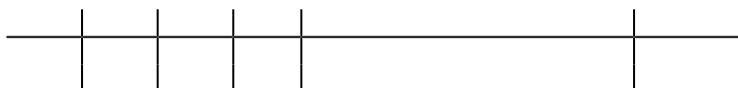
eff. = effective transmission output

PEP = maximum carrier power (Peak Envelope Power)



**WARNING**

*If transmitter/receiver units are installed with a higher output or with an antenna that differs from the items named above, the vehicle operating permit may be void.*

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# Cautions & Warnings

**Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.**

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized Audi retailer or other qualified shop. We especially urge you to consult an authorized Audi retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Audi.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. **Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.**  
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- Audi is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only. Always check with your authorized Audi retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the Audi Factory Approved Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it.
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with acid. Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.

# Cautions & Warnings

- Do not re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.
- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly, do not attempt shortcuts. Use tools that are appropriate to the work and use only replacement parts meeting Audi specifications. Makeshift tools, parts and procedures will not make good repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty food or beverage containers that might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills at once, but do not store the oily rags, which can ignite and burn spontaneously.
- Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS), disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.

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## Cautions & Warnings

- When boost-charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device. Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal injury. To guard against personal injury or airbag system failure, only trained Audi Service technicians should test, disassemble or service the airbag system.
- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Audi Service technicians using the Audi Factory Approved Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

**I have read and I understand these Cautions and Warnings.**